#HandsOnMmIT

Creating low-cost VR for your Library

@antonygroves

Today's workshop

Virtual Reality
Spherical Photography
360° photography at Sussex
The cost
The hands-on bit!

What is VR?

"Virtual Reality (VR) is the use of computer technology to create a simulated environment"

Dr. Brian Jackson, 2015

Expectation is growing

2014 Facebook buys Oculus
2016 FB supports 360° photos
2018 FB releasing 'Oculus Go'

"I am more committed than ever to the future of virtual reality"
Mark Zuckerberg, 2017

Infrastructure is coming

5G expected in 2020
24 million users by 2021
100 times faster than 4G

www.wired.co.uk/article/5g-rollout-uk-global

Creating VR with 360° spherical photography

Camera (or app) creates a ‘photo sphere’ through image stitching, calibration and blending.

This photo sphere can then be viewed through web pages, devices or headsets.

"Exhibitions throughout the week in spaces around the Library. See how digital technologies can be used to make the invisible, visible - from 3D printed body organs through to VR tours of inaccessible spaces."

www.sussex.ac.uk/ddw

Taking 360° photos at The Keep with TEL

Making photos available

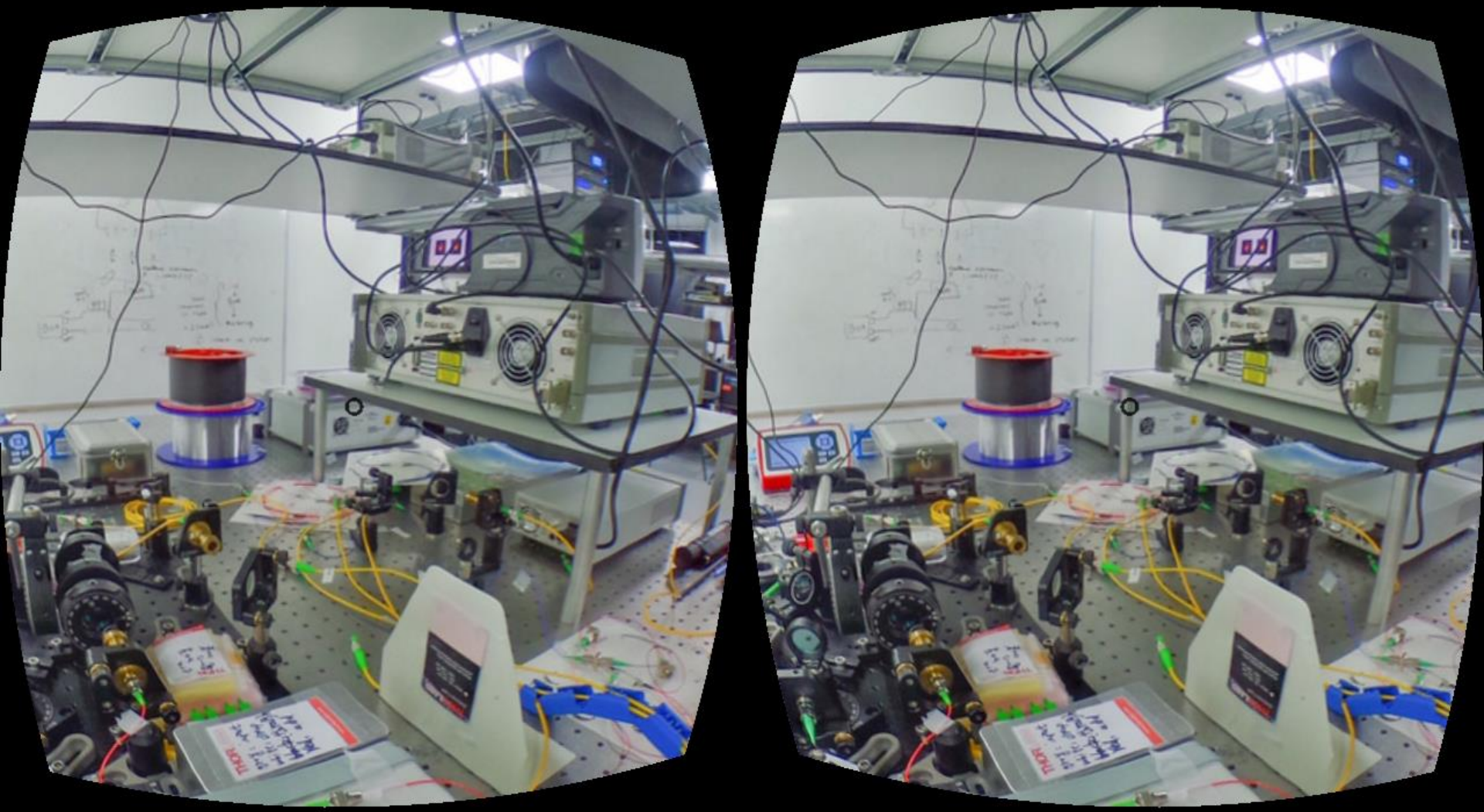
Using free services: Momento360

Embedding players: 360Player

Uploading to FB or Google Maps

Uploading to web using Google VR View script:

https://developers.google.com/vr/concepts/vrview



www.bit.ly/invisible360

Enriched presence on Google Maps (courtesy of Dr. Ben Jackson)

The Keep

The Keep

5.0 ★★★★★ · 2 reviews

County Government Office

Directions

SAVE NEARBY SEND TO YOUR PHONE SHARE

Woollards way, Brighton BN1 9BP

thekeep.info

01273 482349

Opens at

Claim

Sugg

Add

Add a photo

Review summary

5 ★

5.0

University of Sussex

Boiler House

Arts Rd

Institute of Development Studies

Car Park

University of Sussex Library

N - S Rd

University of Sussex Students' Union (USSU)

Mere Way

Stony Mere Way

Sportcentre Rd

Lewes Rd

A27

Falmer

Southern Water

Falmer Sports Centre

Brighton & Albion Football

Checkland University o

University of Brighton, Falmer campus

Virgin Active Brighton

The Keep

Brighton Aldridge Community Academy

Lucraft Rd

Satellite

Google

The Keep

The Keep
Ben Jackson
Street View - Nov 2016

Google

Image capture: Nov 2016 Images may be subject to copyright. United Kingdom Terms Report a problem

Affordable VR?

Ricoh Theta V 360° camera

£399.99

http://shop-uk.ricoh-imaging.eu/theta-360/ricoh-theta-v.html/

Oculus Rift VR Headset

£399

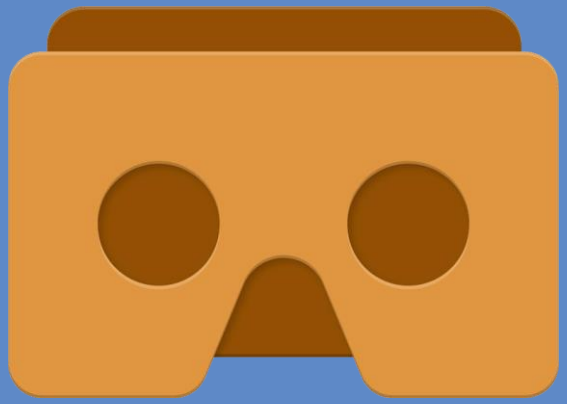
www.oculus.com/rift/

Google Cardboard

£11.55

https://vr.google.com/intl/en_uk/cardboard/get-cardboard/

Google Cardboard & Street View apps



Free

https://play.google.com or https://itunes.apple.com

Facebook 360 Photos

Free

https://facebook360.fb.com/360-photos/

Your turn

1. Use Google Cardboard app to take a 360 photo
2. Sync your phone with the headset using QR code
3. Enjoy your VR experience!

Try using different apps or uploading to a service